

EXHIBIT A
LISTING OF ALL CLAIMS AND AMENDMENTS
(10-04-2004)

Claim 1 (currently amended)

1. A clamp system for allowing a pile driving/pulling system to be attached to a caisson to be driven into or extracted from the earth, comprising:
 - a structural member adapted to be attached to the pile driving/pulling system;
 - first and second clamp systems comprising first and second clamp assemblies, respectively, ~~that engage the structural member such that the first and second clamp assemblies can move along the structural member, where~~ the first and second clamp systems are supported by the structural member and operate in
 - a first clamp mode in which the clamp assemblies are adapted to selectively clamp onto portions of the caisson, and
 - a second clamp mode in which the clamp assemblies are adapted to release from the caisson;
 - first and second locking systems each having a locking assembly mounted on the first and second clamp assemblies, respectively, where each of the first and second locking systems operate in
 - a first lock mode in which a position of the clamp assemblies relative to the structural member is fixed, and
 - a second lock mode in which the clamp assemblies are allowed to move relative to the structural member; and
 - a clamp displacement system having a clamp displacement assembly ~~operatively connected between the structural member and~~ that displaces the first and second clamp ~~assembly~~ assemblies relative to the structural member;
- whereby

when the first and second clamp systems are in the second clamp mode and the first and second locking systems are in the second lock mode, the clamp displacement system may be operated to displace the clamp assemblies relative to ~~each other~~the structural member to obtain a desired clamp distance between the first and second clamp assemblies.

Claim 2 (original)

2. A clamp system as recited in claim 1, in which the clamp displacement assembly comprises:
a drive chain operatively connected to the first and second clamp assemblies;
and
a drive gear; where
the drive gear engages the drive chain such that rotation of the drive gear causes movement of the first and second clamp assemblies.

Claim 3 (new)

3. A clamp system as recited in claim 2, in which the clamp displacement assembly further comprises a first guide cable that operatively connects the drive chain to the second clamp assembly.

Claim 4 (new)

4. A clamp system as recited in claim 3, in which the clamp displacement assembly further comprises a second guide cable operatively connected between the first and second clamp assemblies.

Claim 5 (new)

5. A clamp system as recited in claim 4, in which the clamp displacement assembly further comprises a guide roller for guiding the second guide cable.

Claim 6 (new)

6. A clamp system as recited in claim 5, in which:
the drive gear is located on a first end of the structural member; and
the guide roller is located on a second end of the structural member.

Claim 7 (new)

7. A clamp system as recited in claim 3, in which at least one of the drive chain and the first guide cable extends through an opening in the first clamp assembly.

Claim 8 (new)

8. A clamp system as recited in claim 4, in which:
at least one of the drive chain and the first guide cable extends through an
opening in the first clamp assembly; and
the second guide cable extends through an opening the second clamp assembly.

Claim 9 (new)

9. A clamp system as recited in claim 4, in which the drive chain, first guide cable, and second guide cable define a closed guide path such that:
rotation of the drive gear in a first direction causes the first and second clamp assemblies to move towards each other along the structural member; and
rotation of the drive gear in a second direction causes the first and second clamp assemblies to move away each other along the structural member.

Claim 10 (new)

10. A clamp system for allowing a pile driving/pulling system to be attached to a caisson to be driven into or extracted from the earth, comprising:

- a structural member adapted to be attached to the pile driving/pulling system;
- first and second clamp systems comprising first and second clamp assemblies, respectively, that engage the structural member such that the first and second clamp assemblies can move along the structural member, where the first and second clamp systems operate in
 - a first clamp mode in which the clamp assemblies are adapted to selectively clamp onto portions of the caisson, and
 - a second clamp mode in which the clamp assemblies are adapted to release from the caisson;
- first and second locking systems each having a locking assembly mounted on the first and second clamp assemblies, respectively, where each of the first and second locking systems operate in
 - a first lock mode in which a position of the clamp assemblies relative to the structural member is fixed, and
 - a second lock mode in which the clamp assemblies are allowed to move relative to the structural member; and
- a clamp displacement system having a clamp displacement assembly operatively connected between the structural member and the first and second clamp assembly, the clamp displacement system comprising
 - a drive chain operatively connected to the first and second clamp assemblies, and
 - a drive gear; whereby

the drive gear engages the drive chain such that rotation of the drive gear causes movement of the first and second clamp assemblies; and

when the first and second clamp systems are in the second clamp mode and the first and second locking systems are in the second lock mode, the clamp displacement system may be operated to displace the clamp assemblies relative to each other to obtain a desired clamp distance between the first and second clamp assemblies.

Claim 11 (new)

11. A clamp system as recited in claim 10, in which the clamp displacement assembly further comprises a first guide cable that operatively connects the drive chain to the second clamp assembly.

Claim 12 (new)

12. A clamp system as recited in claim 11, in which the clamp displacement assembly further comprises a second guide cable operatively connected between the first and second clamp assemblies.

Claim 13 (new)

13. A clamp system as recited in claim 12, in which the clamp displacement assembly further comprises a guide roller for guiding the second guide cable.

Claim 14 (new)

14. A clamp system as recited in claim 13, in which:
the drive gear is located on a first end of the structural member; and
the guide roller is located on a second end of the structural member.

Claim 15 (new)

15. A clamp system as recited in claim 11, in which at least one of the drive chain and the first guide cable extends through an opening in the first clamp assembly.

Claim 16 (new)

16. A clamp system as recited in claim 12, in which:
at least one of the drive chain and the first guide cable extends through an
opening in the first clamp assembly; and
the second guide cable extends through an opening the second clamp assembly.

Claim 17 (new)

17. A clamp system as recited in claim 12, in which the drive chain, first guide cable, and second guide cable define a closed guide path such that:
rotation of the drive gear in a first direction causes the first and second clamp assemblies to move towards each other along the structural member; and
rotation of the drive gear in a second direction causes the first and second clamp assemblies to move away each other along the structural member.